



### Driving Question:

**How can we, as game engineers, improve upon an existing electrical game?**

### Launch:

In our first week back, we are going to investigate and explore different electrical components to make a working circuit using bulbs, buzzers, wires and cells.

### Overview:

In our new topic, we will be taking on the role of a gaming engineer, applying our knowledge of electrical circuits to recreate an electrical buzzer game. Working in small groups, we will collaborate to design, make and evaluate a new game developing our critical thinking skills.



### Science

Creating a working electrical circuit.

### Critical Thinking

Analyse and Evaluate our designs.  
Design, Make Evaluate

### DT

Design a simple game that requires a working electrical circuit.

### English

Identifying the features needed to write to entertain.

### Vocabulary:

electrical circuit  
current  
positive  
negative  
complete  
conductor  
insulator  
bulb  
switches  
buzzers  
wires

### Learning conversations to have at home:

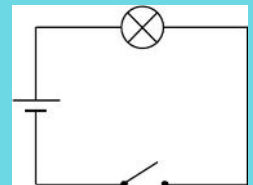
**Safely explore household items with your child. Which items contain an electrical circuit? Discuss how we can ensure that we are safe around electrics at home?**

*Identify different household items and discuss if they need an electric circuit to function: toaster, remote control, TV, torch, lights. Share that the use of a switch / button acts as a circuit breaker and will turn the object on / off.*

[Play this game where you can explore and identify dangers with electrics.](#)

**Discuss with your child what components you need to make a working [circuit](#)?**

*To make a complete circuit, you would need to have a cell, wires and a bulb/buzzer connected in series.*



### Topic Home learning:

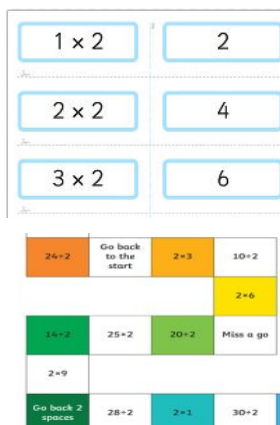
As game designers, your challenge is to create a game for Year 3!

**Design brief:** Design a game to improve your times tables.

**Audience:** Year 3 children.

This game can be on a board, cards or a quiz!

Please hand in on or before:  
Monday 4th December



### Future Careers:

We will discuss the skills needed to be a games designer and the marketing team that is needed to promote popular games.

### Landing:

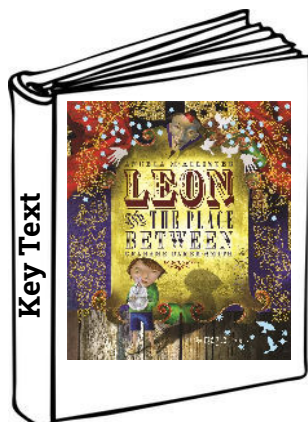
We are going to have a Year 4 games exhibition. Once we have designed and created our game, we will share it with our audience (Year 3) who will trial them and give us feedback.

## Reading

This term our key text is '*Leon and the Place Between*,' by Angela McAllister. This book of mystery will transport us to a world of magic and beyond. A beautifully illustrated text that will grab the children's attention.

What lessons can we learn from Leon?

Have you ever been to a circus or a fairground?



What is your favourite part of this story?

What Jewell learning skill does Leon demonstrate most?

## English

- ★ Writing to inform through a newspaper report
- ★ Inverted Commas
- ★ Paragraphs

### How can you help at home?

- Look at a newspaper with your child at home. What features do you notice?
- [BBC Bitesize - Inverted Commas](#)
- [BBC Bitesize - Paragraphs](#)

## Maths

- ★ Multiplication
- ★ Area and Perimeter
- ★ Fractions
- ★ Decimals

### How can you help at home?

- Encourage your child to participate in our weekly TTRockstar tournament between classes.
- Take a look at your garden or an outside space. Can you estimate or measure the area and perimeter?

## Science

We are learning to identify and construct simple series circuits including switches as well as obtaining knowledge about insulators and conductors.

## Geography

We are learning to further our knowledge of physical geography. We will be describing and understanding the key aspects of volcanoes.

## Music

We are continuing to learn to play the flute with Mrs Holland.

## PSHE

We are learning all about 'Dreams and Goals' and how to set them.

## Art

We are learning to develop and improve the technique of monoprinting.

**Computing** We are working on E-safety, including the topics of self image, identity and online relationships

## Design and Technology

We are learning how to make manually controlled, simple circuits with buzzers.

## Physical Education

We are continuing our work on Invasion games and Gymnastics

## Spanish

We are learning about basic vocabulary and phrases to use in the classroom and at Christmas.

## Religious Education

We are exploring the question: Could Buddha's teachings make the world a better place?

**Dates for the diary :** Friday 24th November - INSET Day. Tuesday 28th and Wednesday 29th November - Parent Consultations. 15th December (1pm finish) - End of Term.